A.N.A.R.T.S. News Bulletin 1356 for 10th July 2005.

Items in this broadcast include

1. Cols Column
2. IPS REPORT
3. VK2SG RTTY DX report
4. OPDX Bulletin excerpts
65 Anarts Information

Col's Column

Early Electrical Communication.

Early Electrical Communications, United States.

The first Telegraph that Morse constructed is now a well known apparatus. He made a square wooden frame, that stood upright. It had a horizontal shelf approximately half the height of the frame. An electromagnet was placed on the shelf, its poles projecting over the side of the frame. A wooden pendulum was then suspended from the top of the frame, and this had an iron armature at the level of the electromagnet. At the lower end of the pendulum a pencil was located, with the point of the pencil pointing downward and just touching a strip of paper. The strip of paper was part of a paper roll that was slowly drawn by clockwise past the pencil. Normally a straight line was therefore drawn on the paper. However, when the magnet was activated, the pendulum was moved to one side, attracted by the magnet. The passing of current through the magnet was therefore shown by the displacement of the pencil.

This device was the receiving Telegraph, and you can see that it was a very basic method of recording the transmitted signals.

At the 'Transmitter', a wooden lever that pivoted at its centre, had a triangle shaped piece of metal at one end and underneath the lever, with two prongs facing downwards. The message to be transmitted was set up in 'Type' similar to early printing presses. The 'Type' had a series of grooved 'Rule' with the teeth pointing upwards. As the teeth were made to move slowly along a grooved track called the 'Port Rule', they engaged with the triangle shaped piece of metal beneath the pivoted lever. The lever was 'Rocked' by the teeth as they moved along, coding the message. The aforementioned prongs moved up and down with the rocking lever and dipped into two cups of mercury, completing a circuit to line and onwards to the receiving telegraph.

The whole device was a rudimentary automatic transmitter. The 'Type' with its teeth replacing the punched tape of Wheatstones elegant automatic transmitter mentioned

in a previous weeks part.

Morse discovered that this device would not work through
wires that were more than a few feet long. He had no
scientific knowledge at all and so had to seek help.
We shall investigate that next week.

Till then 73's Col VK2CTD.

IPS Weekly Solar and Geophysical Report 1/7th July

SUMMARY

Date	01	02	03	04	05	06	07
10cm flux	115	124	130	124	127	123	125
AFr index	12	12	9	5	3	3	5 est
Aaus index	9	11	6	4	3	4	6 est
T index	43	59	49	57	42	56	55

Solar flare activity was very low 1/6th and moderate
on 7th with one M4 flare.

Geomagnetic activity observed for the Australian Region
was quiet to unsettled on 1/3rd and quiet thereafter.

Southern Australian Ionospheric F2 critical frequencies
were near predicted to 15 percent enhanced on 1st
enhanced 15 to 30 percent on 2nd enhanced 15 percent to
20 percent on 3rd near predicted to 20 percent enhanced
on 4th mostly near predicted to 25 percent enhanced on
5th and slightly above predicted values on 6th and 7th.

Forecast for 8/14th Jul

Solar activity should be moderate early in the week.

Geomagnetic activity should be active 8/9th active on
14th and quiet to unsettled on other days.

Frequencies should be briefly depressed after locaL
dawn 9/13th and near predicted monthly values on
other days.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

RTTY DX NOTES WEEK ENDING 7 JUL

This week our information came from AA5AU GU0SUP I1JQJ (425DX)
I5FLN and the Central Europe clusternode DB0SPC. Thank you all.

Friday 1
0222-14080 WB9CIF/J6
0241-14084 HR2/LU1DY
0254-14088 EA8RA
0311-14087 R1ANT
0356-14086 EA6/I1RSA

0409-14088 A45WD
0523-10142 XE1MW
1248-14079 TI8CBT
1327-14087 9K2SR
1532-21080 WB9CIF/J6
1657-14082 EK3GM
1745-14085 CU6NS
1916-14081 A45WD
1927-14088 CT3IA
1945-14086 EI6HB
2024-24923 WB9CIF/J6
2041-18100 TI8CBT
2134-18106 XE1KK
2219-14083 Z32PT
2304-14087 SU1SK

Saturday 2
0003-14086 CE3PG
0022-14090 Z32PT
0029-10133 CY9SS
0038-14088 XE1EK
0044-10131 TI8CBT
0056-14083 HR1RMG
0248-14090 WB9CIF/J6
0258-14085 CU3EQ
0358-14082 A45WD
1050-14082 CY9SS
1109-14085 ZL2AMI
1148-14082 FO5PS
1200-14078 TI8CBT
1217-14079 YV6BTF
1222-14087 CO2ZK
1223-14078 9M6/G3OOK
1225-18104 WB9CIF/J6
1254-21090 FR1HZ
1303-21096 A45WD
1337-14102 XE1KK
1346-18105 5I3A
1400-21093 YB5BO
1412-14108 TF3KX
1420-21086 9V1UV
1424-21093 9M2CNC
1445-21088 YV6BTF
1446-21078 ZC4LI
1501-21082 TI8CBT
1535-24924 CY9SS
1548-28082 A45WD
1600-14088 CT3IA
1614-14104 HL3AHQ
1646-21092 PT7AZ
1650-21077 CX7BF
1651-14108 ZC4LI
1707-14084 YB2ECV
1714-21082 9V1UV
1715-21090 J68AS
1831-14076 ZC4LI
1840-18105 9G5OO
1906--7032 ZL2AMI
1929--7031 9M2CNC
1934--7030 UN6G
1948-21086 LU8EGS
1950-14084 9M6/G3OOK
2031-14107 YV5AAX

2050-14087 HR1RMG
2134-14104 LV5V
2140-14088 ZL2AMI
2225-14082 HR2/LU1DY
2253-14083 XE1V
2325-14096 IS0/IK4LHC
2348-21084 ZL2AMI
2359-14085 TI8CBT

Sunday 3
0004-14086 HR1RMG
0006-14082 XE1V
0041-21094 9M2CNC
0104-18103 WB9CIF/J6
0105-14085 CO1RG
0112-14087 HR2/LU1DY
0117-14085 FO5PS
0141--7036 A45WD
0304--7042 YV6BTF
0409-14091 YV6BTF
0424-14085 ZL2AMI
0439-14079 A45WD
0501-14084 ZL3JT
0621-21081 UN6G
0625-21088 FR1HZ
0634-21081 ER3ZZ
0657-21078 ZC4LI
0733-21087 YB2ECG
0740-28087 9M6/G3OOK
0824-21082 XU7ABN
0825--7038 ZL2AMI
0826-28084 EU1MM
0854-14095 J68AS
0940--7037 NP4BM
0954--7033 VR2XLN
1007-21094 J68AS
1022--7030 9M6/G3OOK
1157-18105 WB9CIF/J6
1434-18103 TI8CBT
1500-18104 NP4BM
1505-18104 9V1CW
1555-18104 4K5D
1648-18103 5I3A
1753-14082 CY9SS
1814-14084 WB9CIF/J6
1841-14084 TI8CBT
2011-14078 9G5OO
2029-14083 XE1ZVO
2032-14089 GU0IDA
2033-10127 9G5OO
2155-14090 9G5OO
2228-14089 CU6NS
2339-14084 HC5T

Monday 4
0121-14082 CY9SS
0151-14088 ER3GS
0349-14083 WB9CIF/J6
1227-14083 TI8CBT
1317-18105 WB9CIF/J6
1433-14088 9K2SR
1508-14085 CO1RG
1611-18103 TK5IH

1649-21080 5I3A
1724-14085 OX3DB
1733-14084 ER1RR
1744-21085 CU6NS
1840-21086 LU6DAT
1854-14084 XU7ABN
1928-21083 N6KZB/XE2
2218-10137 CE3AKK
cq cq de vk2tty vk2tty
Tuesday 5
0000--7036 PT7AZ
0037-14086 XE1EK
0145-14084 CY9SS
0548-14087 Z32PT
1108-18103 CY9SS
1251-14092 YV5ANF
1415-18103 9V1CW
1426-18106 5I3A
1435-18104 XE1MW
1950-21081 CY9SS
2005-21078 TI8CBT
2020-28085 KP4JRS
2118-21089 EC8AUZ
2208-14086 TF3HP
2352-14083 Z32PT

Wednesday 6
0031-14083 Z32PT
0151-14088 EA6/I1RSA
0232-14085 VK3KE
0348-14080 XQ1VLY
0352-14083 TI8CBT
0730-14087 KL7IWC
1137-14079 TI8CBT
1349-21082 5I3A
1613-14085 KL7IWC
2004-14082 A71EM
2247-14082 CO1RG

Thursday 7
0002-14083 CO1RG
0007-14087 CU6YB
0023-14087 OX3DB
0443-14087 XE2AC
1307-14082 TI8CBT
2139-14082 HZ1NH
2159-14080 TI8CBT
cq cq de vk2tty vk2tty

Notes of Interest

KH0 - MARIANA ISL.: A group of Japanese hams will be active
from Saipan Jul 8/11 on 6 - 40m using CW SSB and RTTY.
QSL to homecalls.

C9 - MOZAMBIQUE: Several Ukrainians will operate on 10-160m
CW SSB and digital modes between 23 Jul and 10 Aug.

The VK2SG RTTY DX NOTES are distributed every week via the
Winlink network and are also available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.

To subscribe to the digital-dx reflector send an e-mail message to majordomo at mla.nifty.ne.jp as follows: Subject:(blank) Message Body: subscribe digital-dx

For next weeks bulletin send your bandpass and notes of interest to Don AA5AU email aa5au at bellsouth.net

Goetz Linss DJ3IW

The Ohio/Penn DX Bulletin No. 716 - excerpts

FO, FRENCH POLYNESIA
Fred F5INL will be on a 2 year assignment in Papeete starting Aug 8. His new callsign is FO5INL. Fred states it (seems) that this will be the first time a three letters suffix will be issued in FO5 area. He will use a TS50 AT50 morse paddles and some undetermined antennas. ADDED NOTES: During his stay he is scheduled to make a visit to Easter Island (SA-001) and possibly another location in New Zealand. More information is forhcoming.

HQ9, HONDURAS
Ray WQ7R will be operating from Roatan Island (NA-057) from Oct 22 to Nov 4 possibly as WQ7R/HR9. His activity will be limited due to other commitments while on the island but look for him on the HF bands on the modes RTTY PSK and CW. There will also be activity on 6M CW/SSB. He will also be a Single-Op/All-Band/Low-Power entry as HQ9R in the CQ WW DX SSB Contest (Oct 29-30). QSL both operations via N6FF.

IOTA NEWS

AS-117. Operators JA0HNA JE0OMG and JH0OLD will be active as homecall/0 from Awa Island (JIIA AS-117-062 and Niigata Prefecture), July 8-11th. QSL via their home callsigns, direct or by the bureau.

AS-117. Operators JM4MDV and JE4EXD plan to be active as homecall/4 from Heigun Island (Yamaguchi Pref) from Jul 17-18. After the operation a JIIA number will be issued (JIIA AS-117-???). QSL via their home callsign, direct or by the bureau.

AS-117. Operator JF0BPT will be active as JF0BPT/7 from O-shima Island (JIIA AS-117-005), Aichi Prefecture, Honsyu Coastal Island from Aug 15-16, and Eno Island (JIIA AS-117-053), Miyagi Prefecture, Honsyu Coastal Island, Aug 16-17. QSL via the home callsign, direct or by the bureau.

EU-129. Look for DL0MFK/LH to be active from Usedom Island (DID/GIA O-13) and the Karnin Lighthouse (WLH DL-014 and ARLHS FED-274), August 20-21st. QSL via the bureau.

EU-158. Nick SV3SJ will be active as SY8M from Proti Island (MIA MG-092) during the IOTA Contest. Also during Aug 1 he will be signing SV3SJ/p with particular attention for USA and JA stations. QSL both SY8M and

SV3SJ/p via IZ8CCW direct or by the bureau.

SA-069. Members of the Atacama Desert DX Group will
be active as 3G1M from Santa Maria Island for 3 days
next Aug 13-15. Activity will be on 40-10M including
the WARC band and 6M on modes CW SSB RTTY and BPSK1.
QSL via XQ1IDM.

KH0, MARIANA ISLANDS
Look for operators Nao/JK1FNL (NA8O/KH0) Jim/7K4QOK
(KG8RP/KH0) and Takky/JE1KUC (N1KU/KH0) to be active
from Saipan Northern Mariana Islands (OC-086) Jul 8-11.
Activity will be on 40-6M CW SSB and RTTY. QSL via
their JA home callsigns direct or thru the JARL Bureau.

KH9, WAKE ISLAND
The Daily DX is reporting that there may be some activity
by Mel W3MR as W3MR/KH9 during his current work assignment
on the island. The length of his stay is not known.
However if Mel finds time to operate (work comes first),
look for him on 20 meters using only 100 watts and a
dipole. QSL via his home callsign.

LIGHTHOUSE ACTIVITY
Members of the Noyelles sous Lens ARS (F8KHD) will be
active as TM1MAN from Ault Lighthouse between Jul 16-23.
Lighthouse References are: French Onshore Lighthouse
(DPLF) PB-056 and ARLHS FRA 175. QSL via F8CSD. Look
for DA0LH to be active from Robbenplate Lighthouse
(FED-198) in Germany Jul 21-24. QSL via the bureau.

LY90, LITHUANIA
Lenio Marobin PY3DF (ILERA-General Secretary) and a
team of European members of the International League
of Esperantists Radioamateurs (ILERA) will activate
the special events station LY90E from the 90th
Esperanto World Conference in Vilnius/Lithuania from
Jul 23-30. Suggested frequencies are 7066 14266 21266
and 28766 kHz. QSL via LY2FN direct (QRZ.com) or by
the bureau.

PZ5, SURINAME
Bob/N3CXM and Carroll/KG4EHW will be active as PZ5JR
and PZ5CM respectively until Jul 17. However their
activity will be limited to their spare time. They
have been there since Jun 30 but no QSNs have been
reported yet. QSL both callsigns via K3BYV.

SPECIAL EVENT (Also IOTA Op)
Members of the Metropolitan 222 Amateur Radio Society
(K2MET) will sponsor a Sep 11 Memorial Station on
Governors Island NY (NA-026) Sep 10. Operations will
take place between 11:00 AM and 4:00 PM EDT (1500-2000z)
on 21340 kHz, 14250 kHz and 7250 kHz (+-/- QRM).
QSL via W2SN.

SPECIAL EVENT
Look for the special event station R3K to be on the air
Jul 15-21 from the space rocket corporation 'Energy'.
Activity is to celebrate the 30th anniversary of Apollo
-Soyuz space program. QSL via RN3DK to receive a special
memorable QSL card.

SPECIAL EVENT
Hams of the North Cotentin will activate special event station TM1TSR on all bands and modes from Jul 9-22. Activity is to celebrate the Tall Ship Races in Cherbourg -Octeville harbor. They expect more than a hundred of great sailboats, 3000 sailormen and half a million visitors during this most important boat meeting of 2005. The tall ship races have been going on since 1956, and the main goal is to educate the young to the sea practice. They believe at least half of the expected sailors must be between the age 15 and 25. QSL via F6KFW.

TG4, GUATEMALA
Operators Mario/TG9ADQ Francisco/TG9ANF Edgar/TG9AXF and Sergio/TG9SM will operate using the special callsign TG4P from Aug 6-7 (from 1800z to 1800z) near Pacaya Volcano which is erupting constantly. It is located 17.1 miles to the south of Guatemala City and it is 8,373 feet high. They will be operating on SSB RTTY PSK31 and CW on the bands 40 20 15 10 and 6M 24 hours simultaneously on all modes. QSL Manager is TG9ANF. NO BUREAU QSLS.

USI NEWS (United States Island Award)
CO-NEW. Roger K0YY plans to be active from Bridge Island (New for the U.S. Islands Award), located in the rare grid DM60, Routt County, Colorado, Jul 8-18. Activity will be on 80-2M CW SSB and Digital modes. QSL via home call (QRZ.com).

NC-001S. Jon WB8YJFI, will be once again active as WB8YJF/4 from Ocracoke Island (NA-067), NC, Jul 24-31. He will also be active in the IOTA Contest. Activity will be on 80-10M CW RTTY and some SSB. QSL via his home callsign direct for a FAST QSL.

The Society can be contacted in the following ways:
To Pat VK2JPA via patleeper at optusnet.com.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN